

PAGE 1 SUBNOD SRC

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/ [REDACTED] TED FOR MEDAL 14 15/9/72

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2      .TITLE SUBNOD
3      /
4      / THIS PROGRAM SOURCE FILE IS SUPPLIED IN CONFIDENCE TO THE
5      / CUSTOMER; THE CONTENTS OR DETAILS OF ITS OPERATION MAY ONLY
6      / BE DISCLOSED TO PERSONS EMPLOYED BY THE CUSTOMER WHO REQUIRE
7      / A KNOWLEDGE OF THE SOFTWARE CODING TO CARRY OUT THEIR JOB.
8      / DISCLOSURE TO ANY OTHER PERSON MUST HAVE THE PRIOR AUTHORISATION
9      / FROM THE DIRECTORS OF REDAC SOFTWARE LIMITED.
10     /
11     .GLOBL SUBNOD,.DA
12     00000 R 000000 A COMPS .CBD COMPS 1
13     00001 R 000000 A LIBRY .CBD LIBRY 1
14     00002 R 740040 A SUBNOD XX
15     00003 R 120151 E JMS* .DA
16     00004 R 600011 R JMP .+5
17     00005 R 000000 A X1 0
18     00006 R 000000 A Y1 0
19     00007 R 000000 A COMPTR 0
20     00010 R 000000 A NOD 0
21     00011 R 220000 R LAC* COMPS
22     00012 R 040144 R DAC COMPAD
23     00013 R 220001 R LAC* LIBRY
24     00014 R 040145 R DAC LIBAD
25     00015 R 220007 R LAC* COMPTR /LOAD COMPTR
26     00016 R 744010 A RCL /MULTIPLY BY 2
27     00017 R 360007 R TAD* COMPTR /*3
28     00020 R 744010 A RCL /*6
29     00021 R 340144 R TAD COMPAD /FIRST WORD COMPONENT
30     00022 R 723003 A AAC 3
31     00023 R 040150 R DAC TEMP* /POINTS AT LIB WORD
32     00024 R 220150 R LAC* TEMP
33     00025 R 060152 R DAC* (16 /STORE IN INDEX REG 16
34     00026 R 652000 A LMQ
35     00027 R 500153 R AND (777 /REL. POINTER TO LIB
36     00030 R 340145 R TAD LIBAD
37     00031 R 040147 R DAC SCAN* /2ND WORD OF LIB
38     00032 R 750000 A CLA
39     00033 R 640602 A LLS 2 /UNPACK ORIENTATION
40     00034 R 040146 R DAC ORIENT*
41     00035 R 440150 R ISZ TEMP
42     00036 R 220150 R LAC* TEMP
43     00037 R 500154 R AND (1777 /UNPACK X POSITION
44     00040 R 060005 R DAC* X1
45     00041 R 440150 R ISZ TEMP
46     00042 R 220150 R LAC* TEMP
47     00043 R 500154 R AND (1777 /UNPACK Y POSITION
48     00044 R 060006 R DAC* Y1
49     00045 R 220010 R LAC* NOD /PIN NUMBER
50     00046 R 723777 A AAC -1
51     00047 R 652000 A LMQ
52     00050 R 754000 A CLL!CLA
53     00051 R 640323 A DIV /DIVIDE BY THREE

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PAGE	3	SUBNOD	SRC	SUBNOD	
54		00052	R 000003	A	
55		00053	R 040007	R	DAC COMPTR /SAVE REMAINDER
56		00054	R 641002	A	LACQ
57		00055	R 746010	A	CLL RTL /MULTIPLY BY 4
58		00056	R 723002	A	RAC 2
59		00057	R 340147	R	TAD SCAN
60		00060	R 040147	R	DAC SCAN /WORD CONTAINS PAD TYPES
61		00061	R 740030	A	IAC
62		00062	R 340007	R	TAD COMPTR
63		00063	R 040150	R	DAC TEMP /CONTAINS X AND Y POSITION
64		00064	R 200143	R	LAC JMPAD
65		00065	R 340007	R	TAD COMPTR
66		00066	R 040070	R	DAC ADDR /SET UP DISPATCH TABLE JUMP
67		00067	R 220147	R	LAC* SCAN
68		00070	R 740040	A	ADDR XX
69		00071	R 640506	A	LRS 6
70		00072	R 640506	A	LRS 6
71		00073	R 500155	R	AND (?? /UNPACK PAD TYPE
72		00074	R 060156	R	DAC* (17 /SAVE IT
73		00075	R 220150	R	LAC* TEMP
74		00076	R 652000	A	LMQ
75		00077	R 500153	R	AND (???
76		00100	R 040150	R	DAC TEMP /Y POSITION OF PAD
77		00101	R 750000	A	CLA
78		00102	R 640611	A	LLS 11
79		00103	R 040147	R	DAC SCAN /X POSITION OF PAD
80		00104	R 200146	R	LAC ORIENT
81		00105	R 740020	A	RAR
82		00106	R 741400	A	SZL
83		00107	R 600123	R	JMP .+14
84		00110	R 740020	A	RAR /ORIENT=2 IF LINK SET 0 IF NOT
85		00111	R 200150	R	LAC TEMP /XPOS
86		00112	R 741400	A	SZL
87		00113	R 740031	A	TCA /INVERT IF ORIENT=2
88		00114	R 652000	A	LMQ
89		00115	R 200146	R	LAC ORIENT
90		00116	R 742020	A	RTR
91		00117	R 200147	R	LAC SCAN /YPOS
92		00120	R 741400	A	SZL
93		00121	R 740031	A	TCA /INVERT IF ORIENT=2
94		00122	R 600135	R	JMP .+13
95		00123	R 740020	A	RAR /ORIENT=3 IF LINK SET 1 IF NOT
96		00124	R 200147	R	LAC SCAN /XPOS
97		00125	R 741400	A	SZL
98		00126	R 740031	A	TCA /INVERT IF ORIENT=3
99		00127	R 652000	A	LMQ
100		00130	R 200146	R	LAC ORIENT
101		00131	R 742020	A	RTR
102		00132	R 200150	R	LAC TEMP /YPOS
103		00133	R 740400	A	SNL
104		00134	R 740031	A	TCA /INVERT IF ORIENT=1
105		00135	R 360005	R	TAD* X1

PAGE	4	SUBNOD	SRC	SUBNOD
106		00136	R 060005 R	DAC* X1
107		00137	R 641002 A	LACQ
108		00140	R 360006 R	TAD* Y1
109		00141	R 060006 R	DAC* Y1
110		00142	R 620002 R	JMP* SUBNOD
111		00143	R 600071 R	JMPAD JMP ADDR+1
112		00144	R 000000 A	COMPAD 0
113		00145	R 000000 A	LIBAD 0
114			000000 A	.END
		00151	R 000151 E	*E
		00152	R 000016 A	*L
		00153	R 000777 A	*L
		00154	R 001777 A	*L
		00155	R 000077 A	*L
		00156	R 000017 A	*L
		SIZE=00157 NO ERROR LINES		

PAGE 5 SUBNOD CROSS REFERENCE

ADDR	00070	66	68*	111					
COMPAD	00144	22	29	112*					
COMPS	00000	12*	12	21					
COMPTR	00007	19*	25	27	55	62	65		
JMPAD	00143	64	111*						
LIBAD	00145	24	36	113*					
LIBRY	00001	13*	13	23					
NOD	00010	20*	49						
ORIENT	00146	40	80	89	100				
SCAN	00147	37	59	60	67	79	91	96	
SUBNOD	00002	2	11	14*	110				
TEMP	00150	31	32	41	42	45	46	63	73
		76	85	102					
X1	00005	17*	44	105	106				
Y1	00006	18*	48	108	109				
.DA	00151	11	15						